# CPW
# Change Password

Reference: 12-02-2005

# Document Control

Version History

| Version | Date | Comments |
|---|---|---|
| 1.0 | 10-06-2004 | First release |
| 1.0.1 | 12-02-2005 | Add optional ExistingUDPSPIN, PasswordExpirationDate elements |

## Changes Since Last Version

Add optional ExistingUDPSPassword element, PasswordExpirationDate response element.

## Issue Control

Owner: Utah Dept. of Public Safety

Verified by:

Approved by:

Project Manager: Mike Sadler

Signature: Date:

## File Reference

*File stored in hand*

# Table of Contents

# 1 Introduction

### 1.1.1 This Document

A need exists to change the Utah Criminal Justice Information System (UCJIS) password via XML/web services. This document describes the web services, XML specifications and transactions for changing the password.

### 1.1.2 Objectives

The main objectives of this document are:

- To provide a concise list of the XML elements to be used to change the UCJIS password.
- To describe the software based specifications required for the Architecture.
- To define the transactions to be submitted.

### 1.1.3 Audience of this Document

The application's representatives, the Local Law Enforcement users and development teams, and vendors of systems accessing UCJIS for law enforcement agencies comprise the main audience of this document.

### 1.1.4 Related Documents

| Doc. Type | Title | Reference | Signature Date | Status |
|---|---|---|---|---|
| Word document | UCJIS XMLConduit Web Service | Mike Sadler | 10/13/2005 | V.1 |
| Web page | http://it.ojp.gov/jxdd/ | Global Justice XML Specifications | | V.3.0 |
| Excel spreadsheet | Jxdds-3.0.xls | Global Justice XML elements | | V.3.0 |
| Word document | DPS Encryption Strategy within XML Documents | Mike Sadler | 07/13/2005 | V.1.2 |

# 2 Architecture

The architecture herein described supports changing the password on the Utah Criminal Justice Information System (UCJIS). Data is to be shared using standard web services/SOAP message formatting over HTTPs (SSL). The body of SOAP messages contains XML documents pertaining to messages.

Web services are designed to overcome the problems associated with proprietary network protocols. A core set of specifications that together make up Web Services are XML, SOAP, and WSDL. The Extensible Markup Language (XML) is a W3C standard for defining data using a simplified syntax similar to the Standard Generalized Markup Language (SGML). XML is fast becoming the de facto standard for defining data and documents used in Internet-based transactions, and it is used to define SOAP.

Simple Object Access Protocol (SOAP) is a specification that incorporates the most important features of the Distributed Component Object Model (DCOM) and Remote Method Invocation (RMI) into a light-weight XML message that can be used to transmit data over HTTP. SOAP, however, is not limited to just HTTP; it can be used in combination with a variety of protocols, depending upon the business requirements.

Web Services Description Language (WSDL) is an XML format for describing Web Services, as a set of endpoints – or ports – which operate on messages sent over the network. This document assumes that the ongoing reader already has a sufficient background in the web service technologies and implementation options available in his or her development tool(s) of choice.

The specifications are comprised of standards-based protocols and messaging technologies that constitute a best-business-practices solution. At the core of the framework is Extensible Markup Language (XML). Within the framework, XML becomes the messaging format.

The integration framework packages compliant XML within messages that are distributed to the destination node (endpoint) for processing. The messaging infrastructure is comprised of the Simple Object Access Protocol (SOAP) over the Hyper-Text Transfer Protocol (HTTP). To encrypt the data as it traverses the state wide area network (WAN) or internet, secure socket layer (SSL) will be used. Certain elements (logon, password) within the XML document may also be further encrypted.

To query the DPS system, a properly formatted XML document encapsulated in SOAP will be sent to the DPS web services server. The DPS web services server will determine what type of transaction is being performed by evaluating the attribute values of type and class in the DocumentDescriptor element. Logical branching will take place depending on the values and the appropriate method invoked.

# 3 Node Framework Implementation

To implement an XML Change Password (CPW) transaction, the following requirements should be met:

- The information to be shared must be formatted according the to the XML specifications listed in this document.

- To send requests, a requesting system should have the ability to invoke the web service method over HTTPs on a remote system to pass properly formatted XML as a string, encapsulated in a SOAP envelope, and receive string responses.

# 4 Transaction Descriptions

Below is transaction descriptions/flow:

To change the password on UCJIS, a properly formatted XML document will be sent to the DPS web services server. The response code/description (200/OK) will indicate if the transaction was successful or not.

New passwords must be at least 6 characters long and no more than 8 (this will soon change to a minimum of 8 characters), contain at least one alphabetic character, contain at least one numeric character, and must not have been used before.

Valid characters for passwords are:
abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789!@#$%^&*()_-=+;:.<>,'"?[]{}

# 5 Response Codes

The ResponseStatus codes used in UCJIS XML documents are roughly based on HTTP 1.1 Status Codes. A normal success response will contain a 200 ResponseStatusCode and “OK” ResponseStatusDescription.

Success 2xx
**200 OK**
201 Created
202 Accepted
203 Non-Authoritative Information
204 No Content
205 Reset Content
206 Partial Content
Redirection 3xx
300 Multiple Choices
301 Moved Permanently
302 Found
303 See Other
304 Not Modified
305 Use Proxy
306 (Unused)
307 Temporary Redirect
Client Error 4xx
400 Bad Request
401 Unauthorized
402 Payment Required
403 Forbidden
**404 Not Found**
405 Method Not Allowed
406 Not Acceptable
407 Proxy Authentication Required
408 Request Timeout
409 Conflict
410 Gone
411 Length Required
412 Precondition Failed
413 Request Entity Too Large
414 Request-URI Too Long
415 Unsupported Media Type
416 Requested Range Not Satisfiable
417 Expectation Failed
Server Error 5xx
500 Internal Server Error

# Appendix A: Transaction XML Specifications

Below are XML elements to be used to change the UCJIS password.

(Notes: Not all elements may be available to return. Whitespace (CR/LF, tabs, etc.) are included in this document for readability but should not be transmitted.) Empty elements should not be transmitted unless the fact they are empty is relevant.

| Element | Min-Max | Comments |
|---|---|---|
| udps:UDPSXML | 1 - 1 | Root element |
| -udps:DocumentDescriptor | 1 - 1 | Describes the transaction type and class of transaction. This element is used in all DPS transactions. Logical branching can take placed when initially parsing the XML to invoke different processing methods based on the type and class. Attributes for this element include: "type" - mandatory, the type of transaction that is being executed. "class" - mandatory - within the type of transaction, what kind of action is to be performed. "authenticator" - optional, used by the DPS server to decide what authenticating functions should be performed. Default value for this attribute if it does not exist is "UCJIS". "routingCode" - mandatory, used to select which system should service the database functions for this transaction. Options are: "L" - local, "1" - NCIC, "2" - III, "6" - NICS, "M" - NLETS. |
| @type | 1 - 1 | The type of transaction that is being executed. Values for this transaction: CPW, CPWResponse |
| @class | 1 - 1 | Within the type of transaction, what kind of action is to be performed. Values: "ChangePassword". |

| | | |
|---|---|---|
| @authenticator | 1 - 1 | Used by the DPS server to decide what authenticating functions should be performed. Value: "UCJIS" |
| @routingCode | 1 - 1 | Used to select which system should service the database functions for this transaction. Value: "L" |
| -udps:Header | 1 - 1 | Parent element for administrative elements. |
| --udps:Version | 1 - 1 | What version of specifications are being used in this XML document. Currently at 3.0. |
| --udps:System | 1 - 1 | Host computer system name that is conducting the transaction. Value is assigned by DPS in conjunction with the agency. Currently using the IP address of the host system. |
| ---j:ID | 1 - 1 | Identifier. |
| --udps:TransactionID | 1 - 1 | A unique identifier for this transaction |
| ---j:ID | 1 - 1 | Identifier. |
| --udps:Submitter | 1 - 1 | Transaction specific. Person that is submitting the transaction |
| ---udps:UDPSAgency | 1 - 1 | DPS assigned agency identifier of person that is submitting the transaction. |
| ----j:ID | 1 - 1 | Identifier. |
| ---udps:UDPSAuthentication | 1 - 1 | Parent element for logon ID and password. |
| ----udps:UDPSLogon | 1 - 1 | DPS assigned logon ID. Contains two attributes: "encrypted" - mandatory, value is "true", indicates that the element value of the logon ID is encrypted. "source" - mandatory, names the seed element(s) to be used to encrypt the data using the DPS encryption algorithm. |
| @encrypted | 1 - 1 | Indicates that the element value of the logon ID is encrypted. Value: "true" |
| @source | 1 - 1 | Names the seed element(s) to be used to encrypt the data using the DPS encryption algorithm |

| | | |
|---|---|---|
| ----udps:UDPSPassword | 1 - 1 | Password for this user. Contains two attributes: "encrypted" - mandatory, value is "true", indicates that the element value of the password is encrypted. "source" - mandatory, names the seed element(s) to be used to encrypt the data using the DPS encryption algorithm. |
| @encrypted | 1 - 1 | Indicates that the element value of the password is encrypted. Value: "true" |
| @source | 1 - 1 | Names the seed element(s) to be used to encrypt the data using the DPS encryption algorithm |
| --udps:InitiatingAgency | 1 - 1 | Transaction specific. The agency that is initiating the transaction. |
| ---j:Agency | 1 - 1 | Parent element for submitting agency information. |
| ----j:OrganizationORIID | 1 - 1 | ORI of sending agency. |
| -----j:ID | 1 - 1 | Identifier. |
| --udps:Destinations | 1 - 1 | Parent element for the intended destination(s) of the transaction. |
| ---udps:Destination | 1 - 1 | Transaction specific. Parent element for an intended destination of the transaction. |
| ----j:Agency | 1 - 1 | Parent element for destination agency information. |
| -----j:OrganizationID | 1 - 1 | An identifier of the submitting agency. For example, this could contain a State code. |
| ------j:ID | 1 - 1 | Identifier. For this transaction: UT |
| -udps:TransactionParameters | 1 - 1 | Parent element containing the XML specific for each transaction. |
| --udps:ExistingUDPSPIN | 0 - 1 | The existing PIN assigned to this user. Will verify that the new password does not match the existing PIN. |
| @encrypted | 1 - 1 | Indicates that the element value of the password is encrypted. Value: "true" |
| @source | 1 - 1 | Names the seed element(s) to be used to encrypt the data using the DPS encryption algorithm |

| | | |
|---|---|---|
| --udps:NewUDPSPassword | 1 - 1 | The new password that is to be assigned to this user. |
| @encrypted | 1 - 1 | Indicates that the element value of the password is encrypted. Value: "true" |
| @source | 1 - 1 | Names the seed element(s) to be used to encrypt the data using the DPS encryption algorithm |
| -udps:Response | Conditional 1 - 1 | Details about a response to a transaction. Required (and only available) when responding to a message. |
| --udps:ResponseDate | 1 - 1 | Date of response - CCYY-MM-DD |
| --udps:ResponseTime | 1 - 1 | Time of response - HH:MM:SS |
| --udps:ResponseStatus | 1 - 1 | Details about the response status. Parent element for status code and description. |
| ---udps:ResponseStatusCode | 1 - 1 | A response code roughly based on HTTP 1.1 Status Codes. A normal success response will contain a 200 ResponseStatusCode and “OK” ResponseStatusDescription. |
| ---udps:ResponseStatusDescription | 1 - 1 | A response description roughly based on HTTP 1.1 Status CodesDescriptions. A normal success response will contain a 200 ResponseStatusCode and “OK” ResponseStatusDescription. |
| --udps:JusticeXML | Conditional 1 - 1 | Details containing response XML. Required (and only available) on all responses. If an error or "Not Found" condition, the element will be empty. For the CPW transaction, because no data response is required, the element will be empty (but must exist.) The response code will indicate if the transaction was successful or not. |
| ---udps:PasswordExpirationDate | 1 - 1 | If transaction was successful, date the new password expires. |

# A.1 Change Password (CPW) Transaction

List of empty transaction elements:

```
<?xml version="1.0" encoding="UTF-8"?>
<udps:UDPSXML xmlns:j="http://www.it.ojp.gov/jxdm/3.0" xmlns:udps="
http://webservices.ucjis.utah.gov/udpsxml/release/1.0">
    <udps:DocumentDescriptor type="CPW" class="ChangePassword" authenticator="UCJIS" routingCode="L"/>
    <udps:Header>
        <udps:Version>3.0</udps:Version>
        <udps:System>
            <j:ID/>
        </udps:System>
        <udps:TransactionID>
            <j:ID/>
        </udps:TransactionID>
        <udps:Submitter>
            <udps:UDPSAgency>
                <j:ID/>
            </udps:UDPSAgency>
            <udps:UDPSAuthentication>
                <udps:UDPSLogon encrypted="true" source=""/>
                <udps:UDPSPassword encrypted="true" source=""/>
            </udps:UDPSAuthentication>
        </udps:Submitter>
        <udps:InitiatingAgency>
            <j:Agency>
                <j:OrganizationORIID>
                    <j:ID/>
                </j:OrganizationORIID>
            </j:Agency>
        </udps:InitiatingAgency>
        <udps:Destinations>
            <Destination>
                <j:Agency>
                    <j:OrganizationID>
                        <j:ID/>
                    </j:OrganizationID>
                </j:Agency>
            </Destination>
        </udps:Destinations>
    </udps:Header>
    <udps:TransactionParameters>
        <udps:ExistingUDPSPIN encrypted="true" source=""/>
        <udps:NewUDPSPassword encrypted="true" source=""/>
    </udps:TransactionParameters>
</udps:UDPSXML>
```

# A.1.1 CPW Transaction – With Sample Data

With sample data:

```
<?xml version="1.0" encoding="UTF-8"?>
<udps:UDPSXML xmlns:j="http://www.it.ojp.gov/jxdm/3.0" xmlns:udps="
http://webservices.ucjis.utah.gov/udpsxml/release/1.0">
    <udps:DocumentDescriptor type="CPW" class="ChangePassword" authenticator="UCJIS" routingCode="L"/>
    <udps:Header>
        <udps:Version>3.0</udps:Version>
        <udps:System>
            <j:ID>168.178.198.23</j:ID>
        </udps:System>
        <udps:TransactionID>
            <j:ID>12345</j:ID>
        </udps:TransactionID>
        <udps:Submitter>
            <udps:UDPSAgency>
                <j:ID>DPSMIS</j:ID>
            </udps:UDPSAgency>
            <udps:UDPSAuthentication>
                <udps:UDPSLogon encrypted="true" source="udps:TransactionID">usergobbledgook</udps:UDPSLogon>
                <udps:UDPSPassword encrypted="true"
source="udps:TransactionID">pswdgobbledgook</udps:UDPSPassword>
            </udps:UDPSAuthentication>
        </udps:Submitter>
        <udps:InitiatingAgency>
            <j:Agency>
                <j:OrganizationORIID>
                    <j:ID>UTTESTORI</j:ID>
                </j:OrganizationORIID>
            </j:Agency>
        </udps:InitiatingAgency>
        <udps:Destinations>
            <Destination>
                <j:Agency>
                    <j:OrganizationID>
                        <j:ID>UT</j:ID>
                    </j:OrganizationID>
                </j:Agency>
            </Destination>
        </udps:Destinations>
    </udps:Header>
    <udps:TransactionParameters>
        <udps:ExistingUDPSPIN encrypted="true"
source="udps:TransactionID">oldpswdgobbledgook</udps:ExistingUDPSPassword>
        <udps:NewUDPSPassword encrypted="true"
source="udps:TransactionID">newpswdgobbledgook</udps:NewUDPSPassword>
    </udps:TransactionParameters>
</udps:UDPSXML>
```

# A.1.2 CPW Response – With Data

Responses will contain the initial transaction with the response appended on to it.

Sample response message. Note that DocumentDescriptor attribute “type” has been changed to reflect it is a response:

```
<?xml version="1.0" encoding="UTF-8"?>
<udps:UDPSXML xmlns:j="http://www.it.ojp.gov/jxdm/3.0" xmlns:udps="
http://webservices.ucjis.utah.gov/udpsxml/release/1.0">
    <udps:DocumentDescriptor type="CPWResponse" class="ChangePassword" authenticator="UCJIS" routingCode="L"/>
    <udps:Header>
        <udps:Version>3.0</udps:Version>
        <udps:System>
            <j:ID>168.178.198.23</j:ID>
        </udps:System>
        <udps:TransactionID>
            <j:ID>12345</j:ID>
        </udps:TransactionID>
        <udps:Submitter>
            <udps:UDPSAgency>
                <j:ID>DPSMIS</j:ID>
            </udps:UDPSAgency>
            <udps:UDPSAuthentication>
                <udps:UDPSLogon encrypted="true" source="udps:TransactionID">usergobbledgook</udps:UDPSLogon>
                <udps:UDPSPassword encrypted="true"
source="udps:TransactionID">pswdgobbledgook</udps:UDPSPassword>
            </udps:UDPSAuthentication>
        </udps:Submitter>
        <udps:InitiatingAgency>
            <j:Agency>
                <j:OrganizationORIID>
                    <j:ID>UTTESTORI</j:ID>
                </j:OrganizationORIID>
            </j:Agency>
        </udps:InitiatingAgency>
        <udps:Destinations>
            <Destination>
                <j:Agency>
                    <j:OrganizationID>
                        <j:ID>UT</j:ID>
                    </j:OrganizationID>
                </j:Agency>
            </Destination>
        </udps:Destinations>
    </udps:Header>
    <udps:TransactionParameters>
        <udps:ExistingUDPSPIN encrypted="true"
source="udps:TransactionID">oldpswdgobbledgook</udps:ExistingUDPSPassword>
        <udps:NewUDPSPassword encrypted="true"
source="udps:TransactionID">newpswdgobbledgook</udps:NewUDPSPassword>
    </udps:TransactionParameters>
    <udps:Response>
```

```
            <udps:ResponseDate>2004-10-05</udps:ResponseDate>
            <udps:ResponseTime>13:05:23</udps:ResponseTime>
            <udps:ResponseStatus>
                <udps:ResponseStatusCode>200</udps:ResponseStatusCode>
                <udps:ResponseStatusDescription>OK</udps:ResponseStatusDescription>
            </udps:ResponseStatus>
            <udps:JusticeXML>
                <udps:PasswordExpirationDate>2005-12-19</udps:PasswordExpirationDate>
            </udps:JusticeXML>
        </udps:Response>
</udps:UDPSXML>
```

# A.1.3 CPW Response – With Error Example

Sample response message with error.

```
<?xml version="1.0" encoding="UTF-8"?>
<udps:UDPSXML xmlns:j="http://www.it.ojp.gov/jxdm/3.0" xmlns:udps="
http://webservices.ucjis.utah.gov/udpsxml/release/1.0">
    <udps:DocumentDescriptor type="CPWResponse" class="ChangePassword" authenticator="UCJIS" routingCode="L"/>
    <udps:Header>
        <udps:Version>3.0</udps:Version>
        <udps:System>
            <j:ID>168.178.198.23</j:ID>
        </udps:System>
        <udps:TransactionID>
            <j:ID>12345</j:ID>
        </udps:TransactionID>
        <udps:Submitter>
            <udps:UDPSAgency>
                <j:ID>DPSMIS</j:ID>
            </udps:UDPSAgency>
            <udps:UDPSAuthentication>
                <udps:UDPSLogon encrypted="true" source="udps:TransactionID">usergobbledgook</udps:UDPSLogon>
                <udps:UDPSPassword encrypted="true"
source="udps:TransactionID">pswdgobbledgook</udps:UDPSPassword>
            </udps:UDPSAuthentication>
        </udps:Submitter>
        <udps:InitiatingAgency>
            <j:Agency>
                <j:OrganizationORIID>
                    <j:ID>UTTESTORI</j:ID>
                </j:OrganizationORIID>
            </j:Agency>
        </udps:InitiatingAgency>
        <udps:Destinations>
            <Destination>
                <j:Agency>
                    <j:OrganizationID>
                        <j:ID>UT</j:ID>
                    </j:OrganizationID>
                </j:Agency>
            </Destination>
        </udps:Destinations>
    </udps:Header>
    <udps:TransactionParameters>
        <udps:NewUDPSPassword encrypted="true"
source="udps:TransactionID">newpswdgobbledgook</udps:NewUDPSPassword>
    </udps:TransactionParameters>
    <udps:Response>
        <udps:ResponseDate>2004-10-05</udps:ResponseDate>
        <udps:ResponseTime>13:05:23</udps:ResponseTime>
        <udps:ResponseStatus>
            <udps:ResponseStatusCode>500</udps:ResponseStatusCode>
```

```
            <udps:ResponseStatusDescription> ChangePassword Error: New Password has prior usage
history</udps:ResponseStatusDescription>
        </udps:ResponseStatus>
        <udps:JusticeXML/>
    </udps:Response>
</udps:UDPSXML>
```

Examples of other errors:

500 - NewUDPSPassword must contain at least one character and one numeral and no illegal characters
500 - NewUDPSPassword must be at least 6 bytes long but no longer than 8 bytes
500 - XID Processing Error: authenticatorEJB or class not accessible
500 - ChangePassword Error: No database connection available
500 - ChangePassword Error: logindisabled field does not permit a change of password
500 - ChangePassword Error: insert of Old Password history failed
500 - ChangePassword Error: New Password could not be saved in the database
500 - NewUDPSPassword must be unique from the existing password

# Glossary of Terms

The acronyms or concepts that could be used within this document are the following:

| Acronym | Description |
|---|---|
| API | Acronym for “Application Program Interface” |
| Application | Collection of integrated software units, which accomplish a major function. An application could have more than one software unit. |
| BCI | Acronym for “Bureau of Criminal Identification” |
| CAD | Computer Aided Dispatch |
| CS | Cold Standby. Weakest form of High Availability: replicas are entirely initialized subsequent to failures. |
| DHCP | Acronym for “Dynamic Host Configuration Protocol”. A technology for dynamically assigning and maintaining leases on IP addresses to hosts on a subnet. |
| DMZ | De-Militarized Zone. A segment of a LAN that is granted access to external hosts, typically considered quite insecure. A DMZ is typically segregated from “protected” hosts via firewall. |
| DOM | Acronym for “Document Object Model” a tree-based parsing specification for XML |
| DPS | Acronym for “Department Of Public Safety” |
| Firewall | A device for segregating host resources on a LAN between trusted and un-trusted access. |
| HA | High Availability. Automatic masking of unplanned outages: Can be Cold, Warm or Hot Standby. |
| HTML | Acronym for “Hyper-Text Markup Language” |
| HTTP | Acronym for “Hyper-Text Transfer Protocol” |
| IM | Acronym for “Instant Messaging” |
| IP Address | A dotted quad numerical designation for a host, i.e., computer, within a TCP/IP network, e.g., 192.168.1.1 |

| | |
|---|---|
| JAX | Acronym for “Java API for XML” |
| SAX | Acronym for “Simple API for XML” an event-driven parsing specification for XML |
| JAXB | Acronym for “Java API for XML Binding” |
| JAXM | Acronym for “Java API for XML Messaging” |
| JAXP | Acronym for “Java API for XML Processing” |
| JAX-RPC | Acronym for “Java API for XML Remote Procedure Calls” |
| LAN | Acronym for “Local Area Network” |
| Load Balancing | The process by which requests / users requests are sent to the server / printer with the least load and away from servers too busy to handle additional requests. |
| MM | Manual Masking. A "pseudo" (and weak) form of HA, which has replication built into the system, but requires manual detection and recovery action, and so does not satisfy the HA condition of automatic masking. |
| MOM | Acronym for “Message-Oriented Middleware” |
| NAT | Acronym for “Network Address Translation”. A technology that supports routing of IP addresses across disparate subnets in support of indirect paths and often DHCP. |
| NCIC | FBI’s National Crime Information Center |
| NIC | Acronym for “Network Interface Card” |
| NLETS | National Law Enforcement Telecommunications System |
| ORI | Acronym for “Originating Agency Identifier”. This identifier is assigned by the FBI to criminal justice agencies. |
| PDC | Acronym for “Primary Data Center” |
| RDBMS | Acronym for “Relational Database Management System” |
| RMS | Acronym for “Record Management System: |
| Servlet | A persistent process designed to respond to HTTP requests on the back-end of a Servlet-Enabled HTTP server. Servlets run within a Servlet Container such as Apache.org’s Tomcat. |

| | |
|---|---|
| SOAP | Formerly an acronym for “Simple Object Access Protocol”<br><br>SOAP version 1.2 provides the definition of an XML document which can be used for exchanging structured and typed information between peers in a decentralized, distributed environment. It is fundamentally a stateless, one-way message exchange paradigm, but applications can create more complex interaction patterns (e.g., request/response, request/multiple responses, etc.) by combining such one-way exchanges with features provided by an underlying transport protocol and/or application-specific information. SOAP is silent on the semantics of any application-specific data it conveys, as it is on issues such as the routing of SOAP messages, reliable data transfer, firewall traversal, etc. However, SOAP provides the framework by which application-specific information may be conveyed in an extensible manner. Also, SOAP provides a full description of the expected actions taken by a SOAP processor on receiving a SOAP message |
| UCJIS | Acronym for “Utah Criminal Justice Information System” |
| UDC | Acronym for “Utah Department of Corrections” |
| WAN | Acronym for “Wide Area Network” |
| XML | Acronym for “Extensible Markup Language” |
| XSL | Acronym for “Extensible Stylesheet Language” |
| XSLT | Acronym for “Extensible Stylesheet Language Transformations” |

# Observations form

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